

**MANHATTAN**  
**BARCODE  
SCANNER**  
**PROGRAMMING**  
**GUIDE**





## **Programming Menu**

V3.8 a

### **Notice**

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# Chapter 1 Description

## 1.1 General

Thank you for purchasing this barcode scanner with an advanced and versatile decoder. The decoder works with variety of barcode types, reading devices, and computer interfaces. It discriminates over twenty different symbologies automatically.

This menu provides an easy way to configure the decoding options and interface selections by scanning bar codes listed in the menu.

### FCC Approval



This device had been tested in accordance with the procedures and in compliance with Part 15 Subpart B of FCC Rules. And keeps all requirements according ANSI C63.4 & FCC Part 15 B Regulation and CISPR22 Class B.

### CE Standards



The CE mark as shown here indicates this product had been tested in accordance with the procedures given in European Council Directive 2004/108/EC and confirmed to comply with the Europe Standard EN55022:2006:Class B, EN 55024:1998+A1:2001+A2:2003, IEC61000-3-2:2006, IEC61000-3-3:1995+A1:2005, IEC61000-4-2:2001, IEC61000-4-3:2006, IEC61000-4-4:2004, IEC61000-4-5:2006, IEC61000-4-6:2001, IEC61000-4-8:2001, IEC61000-4-11:2004.

## 1.2 Introduction

Check the device for damage or defects. If you find any problems, contact your vendor. Keep the packaging and included accessories should you need to return the item.

## 1.3 Codes Read

UPC/EAN/JAN, Code 39, Code 39 Full ASCII, Code 128, Interleave 25, Industrial 25, Matrix 25, CODABAR/NW7, Code 11, MSI/PLESSEY, Code 93, China Postage, Code 32/Italian Pharmacy. Others available upon request.

## 1.4 Installation

### 1.4.1 Basic Instructions

**English:** Turn off your PC and disconnect its power cable from the AC outlet. Connect the scanner to a USB port on the PC. Plug the power cable back into the AC outlet and turn on the PC.

**Deutsch:** Schalten Sie Ihren PC aus und trennen Sie ihn von der Netzspannung (Netzstecker ziehen). Schliessen Sie den Barcode Scanner an einem USB Anschluss an. Verbinden Sie jetzt Ihren Computer mit der Netzspannung und schalten Sie ihn ein.

**Français:** Eteignez votre PC et débranchez le cordon d'alimentation. Branchez le lecteur de code barre sur le port USB. Rebranchez le cordon.

**Slovensko:** Ugasnitevašračunalnikinodklopitenapajalni kabel iz omrežja. Priklopite čitalec v prosto USB režo na računalniku. Priklopite nazaj napajalni kabel in vklopite računalnik.

### Connecting the scanner

Keyboard wedge / RS232C/USB:

Connect the 10-pin RS45 male connector to the bottom of the scanner. You should hear a click when a proper connection is made.

## **Power supply for RS-232C scanner –**

There are 3 ways to supplying the power, use external +5V power supply, use optional power cable (KBDC) which taking the power from KB wedge or if the host supports +5V power from pin 9.

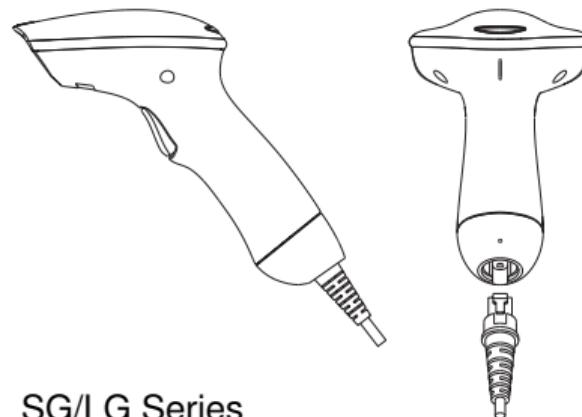
## **Installing the scanner to the Host System –**

1. Turn off the host system.
2. Connect the power if needed.
3. Connect to the proper port on the host system.
4. Turn on the host system.

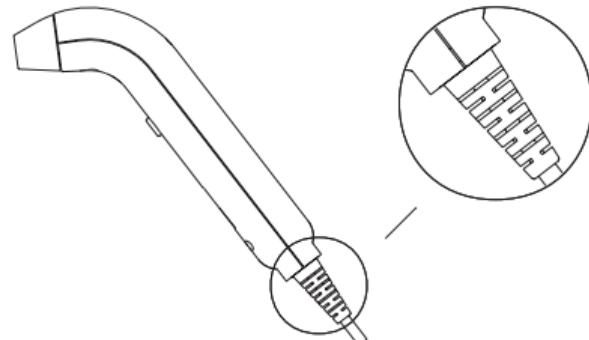
## **Switching cable –**

Before removing the cable from the scanner, it is recommended that the power on the host system is off and the power supply has been disconnected from unit.

1. Find the small “Pin-hole” on the bottom of the unit.
2. Use a bended regular paperclip and insert the tip into the hole.
3. You will hear a “click”, then gentle on the strain-relief of the cable and it will slide out of the scanner.



SG/LG Series



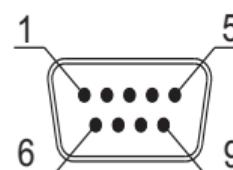
SD Series

## 1.5 Pin Assignment

### A> Input Port for Mini Decoder

#### DB 9 Male

Pin No.	Wand / Slot Reader	CCD / Laser Scanner
1	N.C.	S.O.S.
2	DATA	DATA
3	N.C.	N.C.
4	N.C.	N.C.
5	N.C.	TRIGGER
6	N.C.	P. E.
7	GND	GND
8	SHIELD	SHIELD
9	+5V	+5V

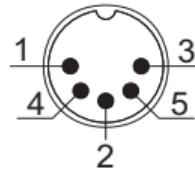


### B> Output Port

#### 1. PC Keyboard Output

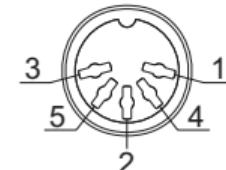
#### DIN 5 MALE

Pin No.	Function
1	HOST CLK
2	HOSTDATA
4	GND
5	Vcc(+5V)



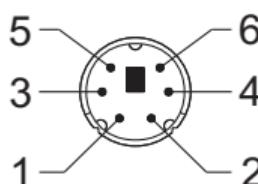
#### DIN 5 FEMALE

Pin No.	Function
1	KB CLK
2	KB DATA
4	GND
5	Vcc(+5V)



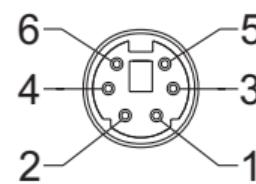
#### MiniDIN 6 MALE

Pin No.	Function
1	HOSTDATA
3	GND
4	Vcc
5	HOST CLK



#### MiniDIN 6 FEMALE

Pin No.	Function
1	KB DATA
3	GND
4	Vcc
5	KB CLK

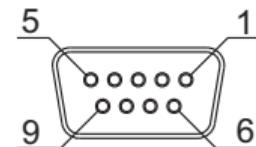


## 2. RS-232 Output

### DB 9 Female

Pin No. Function

2	TXD
3	RXD
5	GND
7	CTS
8	RTS
Power Lead	Vcc (+5V)

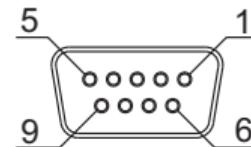


## 3. WAND Emulation Output

### DB 9 Female

Pin No. Function

2	DATA
7	GND
9	Vcc (+5V)

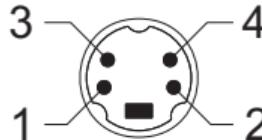


## 4. ADB Interface

### MiniDIN 4 MALE

Pin No. Function

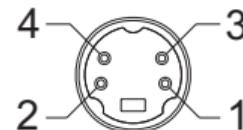
1	ADB
3	Vcc
4	GND



### MiniDIN 4 FEMALE

Pin No. Function

1	ADB
3	Vcc
4	GND

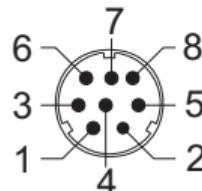


## 5. NEC 9801 Interface

### MiniDIN 8 MALE

Pin No. Function

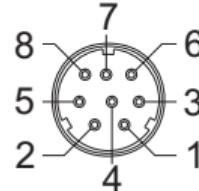
1	RST
2	GND
3	HOST RDY
4	HOST DATA
5	RTY
8	+5V
6	
7	



### MiniDIN 8 FEMALE

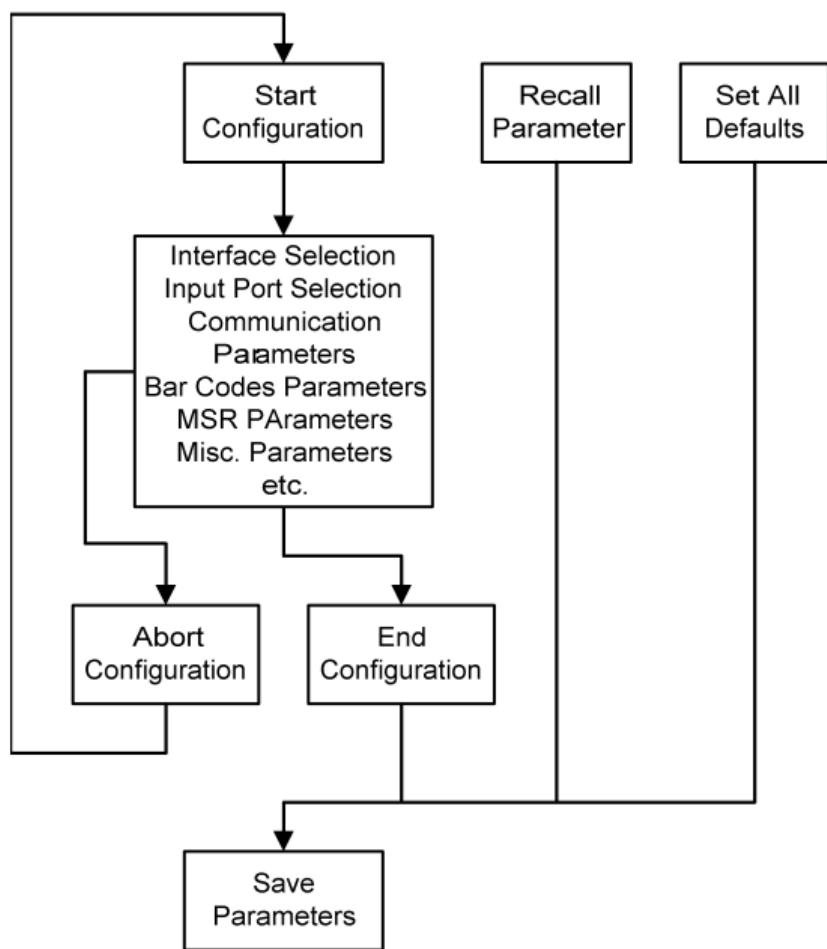
Pin No. Function

1	RST
3	GND
4	KB RDY
5	KB DATA
4	RTY
5	+5V
8	
7	



# Chapter 2 Configuration - General

## 2.1 Flow Chart



## 2.2 Loop of Programming

The philosophy of programming parameters has been shown on the flow chart of 2.1. Basically user should

1. Scan Start of Configuration.
2. Scan all necessary labels for parameters that meet applications.
3. Scan End of Configuration to end the programming.
4. To permanently save the settings you programmed ,just scan label for Save Parameters.
5. To go back to the Default Settings,just scan label for Set All Defaults.

## 2.3 Factory Default Settings

The factory default settings are shown with **<>** and bold in the following sections. You can make your own settings by following the procedures in this manual. If you want to save the settings permanently ,you should scan the label of "Save Parameters" in chapter 2.4,otherwise the settings will not be saved after the decoder power is off, and all settings will go back to previous settings.

By scanning "Set All Default" label, the settings will go back to the factory default settings.

## 2.4 Main Page of Configuration

**Save Parameters**



**Recall Stored Parameters**



**Set All Defaults**



**Start Configuration**



**End Configuration**



**Abort Configuration**



**Version Information**



**Save Parameters -**

The parameter settings will be saved permanently.

**Recall Stored Parameters -**

Replace the current parameters by the parameters you saved last time.

**Set All Defaults -**

Set all the parameters to the factory default settings.

**Abort Configuration -**

Terminate current programming status.

**Version Information -**

Display the decoder version information and date code.

# Chapter 3 Interface and Reading Mode Selection

## 3.1 Interface Selection

**<Keyboard Mode>**



%00U0

RS232 Mode



WAND Emulation



%00M2

USB Mode



%0X08

## 3.2 Memory Function<HC102M Only>

**<Enable>**



%0XI 2

Disable



%0XI 0

### 3.3 Reading Mode Selection

<Good Read OFF>



%0271

Trigger ON/OFF



%0270

Continuous/Trigger OFF



%0272

Testing



%0275

Continuous/Auto Power On



%0273

Flash



%0274

Flash/Auto Power On



%0276

Reserved1



%0277

Reserved 2 ( Auto Sense Option)



%09F8

Reserved3



%09F9

Reserved4



%09FA

Reserved5



%09FB

## Ch.4 Communication Parameters

### 4.1 RS232 Communication Parameters

#### A> Set Up BAUD Rate

2400



<9600>



38400



1200



4800



19200



#### B> Set Up Data Bits

7 Data Bits



<8 Data Bits>



#### C> Set Up Stop Bits

<1 Bit>



2 Bits



## D> Set Up Parity

<None>



%0 YN7

Even

Odd



%0 YN3

Mark

Space



%0 YN0

%0 YN1

## E> Handshaking

RTS/CTS Enable



%0 188

<RTS/CTS Disable>

ACK/NAK Enable



%0 144

<ACK/NAK Disable>

XON/XOFF Enable



%0 3K4

<XON/XOFF Disable>



%0 3K0

## 4.2 Keyboard Wedge Mode Parameters

### A> Terminal Type

<IBM PC/AT, PS/2>



%0ZF0

IBM PC/XT

IBM PS/2 25, 30



%0ZF1

IBM PS/2 25, 30

Apple Desktop Bus(ADB)



%0ZF2

NEC 9800

IBM 122 Key (1)



%0ZF3

IBM 122 Key (1)

IBM 122 Key (2)



%0ZF4

IBM 122 Key (2)

Reserved 1



%0ZF5

Reserved 1

Reserved 2



%0ZF6

Reserved 2



%0ZF7

Reserved 3

Reserved 4



%0ZF8

Reserved 4



%0ZF9

Reserved 5



%0ZFA

Reserved 6



%0ZFB

Reserved 7



%0ZFC

Reserved 8



%0ZFD

Reserved 9

## B> Upper/Lower Case

<No Change>



%0330

Upper Case

Lower Case



%0332



%0331

## C> Capslock Detection

Enable



%0X88

<Disable>



%0X80

## D> Send Character by ALT Method

Enable



%0308

<Disable>

E>Select Numerical Pad

ON



%01K4



%0300

<OFF>



%01K0

## 4.3 Output Characters Parameters

### A> Select Terminator

<CR+LF>



%7S2+

None

CR



%7S0+

LF

Space



%7S4+

HT(TAB)

STX-ETX



%7S5+



%7S1+

## B> Time-out Between Characters

<0 ms>



%0070

5 ms



%0071

10 ms



%0072

25 ms



%0073

50 ms



%0074

100 ms



%0075

200 ms



%0076

300 ms



%0077

## 4.4 Wand Emulation Mode Parameters

### A> TTL Level Representation

<Bar Equals High>



%02K4

Bar Equals Low



%02K0

### B> Scan Speed Selection

<Fast>



%0288

Slow



%0280

### C> Output Format Selection

<Output as Code 39>



%0208

Output as Code 39  
Full ASCII



%0200

Output as Original  
Code Format



%0XK4

# Ch.5 Bar Codes & Others

## 5.1 Symbologies Selection

UPC-A <ON>



%0A44

OFF

UPC-E <ON>



%0B08

OFF

EAN-13/JAN-13/ISBN-13  
<ON>



%0A22

OFF

EAN-8/JAN-8 <ON>



%0A11

OFF

CODE 39 <ON>



%0E08

OFF

CODE 128 <ON>



%0F08

OFF

CODABAR/NW7 <ON>



%0J08

OFF



%0J00

Interleave 25 <ON>



%0 GO8

OFF

Industrial 25 ON



%0 HO8

<OFF>

Matrix 25 ON



%01 O8

<OFF>

CODE 93 ON



%0 KO8

<OFF>

CODE 11 ON



%0 LO8

<OFF>

China Postage ON



%0 MO8

<OFF>

MSI/PLESSEY ON



%0 NO8

<OFF>



%0 NO0

Code 2 of 6 ON



%0 P08

<OFF>



%0 P00

LCD25 ON



%0 Q08

<OFF>



%0 Q00

Telepen ON



%0 T08

<OFF>



%0 T00

Reserved5 ON



%0 R08

<OFF>



%0 R00

Reserved6 ON



%0 S08

<OFF>



%0 S00

GS1 DataBar Omnidirectional ON



%0U08

**<OFF>**

GS1 DataBar Limited ON



%0U00

**<OFF>**

GS1 DataBar Expanded ON



%0V08



%0V00



**<OFF>**

Select All Bar Codes



%0W08



%0W00

## 5.2 UPC/EAN/JAN Parameters

### A> Reading Type

UPCA=EAN13 ON



%0AK4

**UPCA=EAN13<OFF>**

ISBN-10 Enable



%0B88

**ISBN-13 <Enable>**

ISSN Enable



%0B44

**ISSN <Disable>**

Decode with Supplement



%0100

**%0B40**

**<Autodiscriminate Supplement>**

Expand UPC-E Enable



%0BH1

**Expand UPC-E <Disable>**

EAN8=EAN13 Enable



%0AO8

**EAN8=EAN13 <Disable>**

GTIN Format Enable



%0X44

**GTIN Format <Disable>**



%0X40

## B> Supplements Set Up

### <Not Transmit>



%0B33

Transmit 5 Code



%0B32

Transmit 2 Code



%0B31

Transmit 2&5 Code



%0B30

### C> Check Digit Transmission

UPC-A Check Digit  
Transmission <ON>



%0AI 2

OFF

UPC-E Check Digit  
Transmission <ON>



%0BI 2

OFF

EAN-8 Check Digit  
Transmission <ON>



%0A88

OFF

EAN-13 Check Digit  
Transmission <ON>



%0AH1

OFF

ISSN Check Digit  
Transmission <ON>



%0BK4

OFF



%0BK0

## 5.3 Code 39 Parameters

### A> Type of Code

<Standard>



%0 EH1

Full ASCII



%0 EH0

Italian Pharmacy/Code 32

<OFF>



%0 E80

Italian Pharmacy/  
Code 32 ON



%0 E88

### B> Check Digit Transmission

<Do Not Calculate  
Check Digit>



%0 EM2

Calculate Check Digit  
& Transmit



%0 EM6

Calculate Check Digit  
& Not Transmit



%0 EM4

### C> Output Start/Stop Character

Enable



%0 E44

<Disable>



%0 E40

## D> Decode Asterisk

Enable



%0E22

**<Disable>**



%0E20

## E> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set. Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4E1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%4E00

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4E01

1. 2nd Set Begin



%4E00

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4E02

Minimum Length

1. Begin



%2+-/

2. Decimal Value  
(Appendix A)

3. Complete



%2C0+

## 5.4 Code 128 Parameters

### A> Reading Type

UCC/EAN-128

Enable



<UCC/EAN-128

Disable>

<Enable']C1'Code  
Format>



Disable']C1'Code  
Format

<Enable Code128 Group  
Separators (GS)>



Disable Code128  
Group Separators  
(GS)

### B> Check Digit Transmission

Do Not Calculate

Check Digit



Calculate Check  
Digit & Transmit

<Calculate Check Digit  
& Not Transmit>



%0 FN7

### C> Append FNC2

ON



<OFF>



%0 F80

## D> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

### <Variable>



Fix Length (2 Sets Available)

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



Minimum Length

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.5 Interleave 25 Parameters

### A> Check Digit Transmission

**<Do Not Calculate  
Check Digit>**



%0 GN3

Calculate Check Digit  
& Transmit

Calculate Check Digit  
& Not Transmit



%0 GN7



### B> Set Up Number of Character

**<Even>**



%0 G88

Odd



%0 G80

### C> Brazilian Banking Code

**<Disable>**



%0 G40

Enable



%0 G44

## D> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

### <Variable>



%4 G1 +

Fix Length (2 Sets Available)

1. 1st Set Begin	2. Decimal Value (Appendix A)
------------------	----------------------------------



%4 G0 0

3. 1st Set Complete



%4 G0 1

1. 2nd Set Begin

2. Decimal Value  
(Appendix A)



%4 G0 0

3. 2nd Set Complete



%4 G0 2

Minimum Length

1. Begin

2. Decimal Value  
(Appendix A)



%2 + - /

3. Complete



%2 C2 +

## 5.6 Industrial 25 Parameters

### A> Reading type

#### IATA25 Enable



%0H44

<Disable>



%0H40

### B> Check Digit Transmission

#### <Do Not Calculate Check Digit>



%0HN3

Calculate Check Digit & Transmit



%0HN7

Calculate Check Digit & Not Transmit



%0HN5

### C> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4 H1 +

**Fix Length (2 Sets Available)**

**1. 1st Set Begin**



%4 H0 0

**2. Decimal Value  
(Appendix A)**

**3. 1st Set Complete**



%4 H0 1

**1. 2nd Set Begin**



%4 H0 0

**2. Decimal Value  
(Appendix A)**



%4 H0 2

**Minimum Length**

**1. Begin**



%2 +- /

**2. Decimal Value  
(Appendix A)**

**3. Complete**



%2 C3 +

## 5.7 Matrix 25 Parameters

### A> Check Digit Transmission

**<Do Not Calculate  
Check Digit>**



%01 N3

Calculate Check Digit  
& Transmit



%01 N7

Calculate Check Digit  
& Not Transmit



%01 N5

### B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%41 1+

Fix Length (2 Sets Available)

1. 1st Set Begin



%41 00

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%41 01

1. 2nd Set Begin



%41 00

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%41 02

Minimum Length

1. Begin



%2+- /

2. Decimal Value  
(Appendix A)

3. Complete



%2C4+

## 5.8 CODABAR/NW7 Parameters

### A> Set Up Start/Stop Characters Upon Transmission

ON



%0 J H1

<OFF>



%0 J H0

### B> Transmission Type of Start/Stop

<A/B/C/D> <Start>



%0 4 VF

<A/B/C/D> <Stop>



%0 4 FF

A Start



%0 4 V1

A Stop



%0 4 F1

B Start



%0 4 V2

B Stop



%0 4 F2

C Start



%0 4 V4

C Stop



%0 4 F4

D Start



%0 4 V8

D Stop



%0 4 F8

## C> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

### <Variable>



Fix Length (2 Sets Available)

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



Minimum Length

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.9 Code 93 Parameters

### A> Check Digit Transmission

**<Calculate Check 2 Digits  
& Not Transmit>**



%0 KN4

Do Not Calculate  
Check Digit



%0 KN3

### B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4 K1 +

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%4 K0 0

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4 K0 1

1. 2nd Set Begin



%4 K0 0

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4 K0 2

**Minimum Length**

1. Begin



%2 +- /

2. Decimal Value  
(Appendix A)

3. Complete



%2 C6 +

## 5.10 Code 11 Parameters

### A> Check Digit Transmission

**<Do Not Calculate  
Check Digit>**



%0LN3

Calculate Check 1  
Digit & Transmit



%0LN7

Calculate Check 1 Digit  
& Not Transmit



%0LN5

Calculate Check 2  
Digits & Transmit



%0LN6

Calculate Check 2 Digits  
& Not Transmit



%0LN4

### B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



**Fix Length (2 Sets Available)**

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



**Minimum Length**

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.11 MSI/PLESSEY Code Parameters

### A> Check Digit Transmission

**Do Not Calculate  
Check Digit**



%0NN3

Calculate Check Digit  
& Transmit



<Calculate Check Digit  
& Not Transmit>



%0NN5

### B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



**Fix Length (2 Sets Available)**

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



**Minimum Length**

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.12 Code 2 of 6 Parameters

### A> Check Digit Transmission

<Do Not Calculate  
Check Digit>



%0 PN3

**Calculate Check  
Digit & Transmit>**



%0 PN7

Calculate Check Digit  
& Not Transmit



%0 PN5

### B> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4 P1+

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%4 P00

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4 P01

1. 2nd Set Begin



%4 P00

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4 P02

**Minimum Length**

1. Begin



%2 +- /

2. Decimal Value  
(Appendix A)

3. Complete



%2 CB+

## 5.13 LCD25 Parameters

### A> Check Digit Transmission

<Do Not Calculate  
Check Digit>



%0 QN3

Calculate Check Digit  
& Transmit



%0 QN7

Calculate Check  
Digit & Not Transmit



%0 QN5

### B> Setup Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



%4Q1+

**Fix Length (2 Sets Available)**

1. 1st Set Begin



%4Q00

2. Decimal Value  
(Appendix A)

3. 1st Set Complete



%4Q01

1. 2st Set Begin



%4Q00

2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



%4Q02

**Minimum Length**

1. Begin



%2+- /

2. Decimal Value  
(Appendix A)

3. Complete



%2CC+

## 5.14 Telepen Parameters

### A> Type of Code

#### <Full ASCII Mode>



%0T80

Compressed Numeric  
Mode



%0T88

### B> Check Digit Transmission

Do Not Calculate  
Check Digit



%0TN3

Calculate Check  
Digit & Transmit



<Calculate Check Digit  
& Not Transmit>

%0TN7



%0TN5

### C> Set Up Code Length

To set the fixed length:

1. Scan the "Begin" label of the desired set.
2. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the length to be read.
3. Scan the "Complete" label of the desired set.

Repeat the steps 1 - 3 to set additional lengths.

**<Variable>**



**Fix Length (2 Sets Available)**

1. 1st Set Begin



2. Decimal Value  
(Appendix A)

3. 1st Set Complete



1. 2nd Set Begin



2. Decimal Value  
(Appendix A)

3. 2nd Set Complete



**Minimum Length**

1. Begin



2. Decimal Value  
(Appendix A)

3. Complete



## 5.15 GS1 Databar(RSS Code)

### A> GS1 DataBar Omnidirectional ON

<Transmit Check  
Digit>



%0 UNT

Don't Transmit  
Check Digit

<Transmit  
Application ID>



%0 U88



%0 UN5

Don't Transmit  
Application ID

Transmit Symbology ID



%0 U44



%0 U80

<Don't Transmit  
Symbology ID>



%0 U40

### B> GS1 DataBar Limited Parameters

<Transmit Check  
Digit>



%0 VN7

Don't Transmit  
Check Digit



%0 VN5

<Transmit Application ID>



%0V88

Don't Transmit  
Application ID

Transmit Symbology ID



%0V44



%0V80

<Don't Transmit  
Symbology ID>



%0V40

## C> GS1 DataBar Expanded Parameters

Transmit Symbology ID



%0W44

<Don't Transmit  
Symbology ID>



%0W40

## Ch.6 Miscellaneous Parameters

### 6.1 Language Selection

<US English>



%0ZV0

UK English



%0ZV1

Italian



%0ZV2

Spanish



%0ZV3

French



%0ZV4

German



%0ZV5

Swedish



%0ZV6

Switzerland



%0ZV7

Hungarian



%0ZV8

Japanese



%0ZV9

Belgium



%0ZVA

Portuguese



%0ZVB

Denmark



%0ZVC

Netherlands



%0ZVD

Turkey



%0ZVE

Reserved2



%0ZVF

## 6.2 Bar Code ID

ON



<OFF>



Default



With this function ON, a leading character will be added to the output string while scanning code, user may refer to the following table to know what kind of bar code is being scanned.

Please refer to the table below for matching code ID of codes read in.

<b>Code Type</b>	<b>ID</b>	<b>Code Type</b>	<b>ID</b>
UPC-A	A	UPC-E	B
EAN-8	C	EAN-13	D
CODE 39	E	CODE 128	F
Interleave 25	G	Industrial 25	H
Matrix 25	I	Codabar/NW7	J
CODE 93	K	CODE 11	L
China Postage	M	MSI/PLESSEY	N
Code 2 of 6	P	LCD25	Q
Telepen	T	RSS-14	U
RSS Limited	V	RSS Expanded	W

### User Define Code ID

To set the code ID:

1. Scan the symbologies label.
2. Go to the ASCII Tables in Appendix B, scan label that represents the desired code ID.

Note:

User define code ID will override default value. Program will not check the conflict. It is possible to have more than two symbologies which have same code ID.

UPC-A



%01A+

EAN-13/JAN-13



%01Y+

CODE 39



%01E+

CODABAR/NW7



%01J+

Industrial 25



%01H+

CODE 93



%01K+

China Postage



%01M+

UPC-E



%01B+

EAN-8/JAN-8



%01Z+

CODE 128



%01F+

Interleave 25



%01G+

Matrix 25



%01I+

CODE 11



%01L+

MSI/PLESSEY



%01N+

Code 2 of 6



%91P+

Telepen



%91T+

LCD25



%91Q+

RSS-14



%91U+

RSS Limited



%91V+

RSS Expanded



%91W+

Reserved5



%91R+

Reserved6



%91S+

## 6.3 Reading Level

Bar Equals High



**<Bar Equals Low>**

## 6.4 Accuracy

**<1 Time>**



2 Times

3 Times



4 Times

## 6.5 Buzzer Beep Tone

**<High>**



Medium

Low



Off



## 6.6 LED Control(SV700 only)

**<ON>**



OFF



## 6.7 Sensitivity of Continuous Reading Mode

### A> Quick Setting:

<Fast>



Slow



### B> Same Code Delay Reading Interval

Following code sequences represent the length of time before a barcode can be rescanned at continuous and flash reading mode. The value can be defined from 1-50 and they represent 100ms to 5 seconds in 100ms interval. Default value is 3 (0.3 seconds).

#### To setup same code delay reading interval:

1. Scan the "Begin" label
2. Go the Decimal Value Tables in Appendix A, Scan label(s), that represents the same code delay reading interval. They are ranged form 1-50. One step is represented 0.1second. So the interval is from 0.1 to 5 seconds.
3. Scan the "Complete" label

#### Repeat the steps 1-3 to set time out of same symbol

1.Begin



2.Decimal Value

(1-50) (Appendix A)

3.Complete



## 6.8 Notebook Function

Enable



<Disable>



## 6.9 Reverse Output Characters

<Disable>



%03H0

Enable



%03H1

## 6.10 Setup Deletion

To setup the deletion of output characters:

1. Scan the label of the desired set below.
2. Scan the label of the desired symbology.
3. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the desired position to be deleted.
4. Scan the "Complete" label of "Character Position to be Deleted".
5. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the number of characters to be deleted.
6. Scan the "Complete" label of "Number of Characters to be Deleted".

Repeat the steps 1 - 6 to set additional deletion.

### A> Select Deletion Set Number

1. 1st Set



%800+

2. 2nd Set



%801+

3. 3rd Set



%802+

4. 4th Set



%803+

5. 5th Set



%804+

6. 6th Set



%805+

## B> Symbolologies Selection

UPC-A



%8 1 A+

UPC-E



%8 1 B+

EAN-13/JAN-13/ISBN-13



%8 1 Y+

EAN-8/JAN-8



%8 1 Z+

CODE 39



%8 1 E+

CODE 128



%8 1 F+

CODABAR/NW7



%8 1 J+

Interleave 25



%8 1 G+

Industrial 25



%8 1 H+

Matrix 25



%8 1 I+

CODE 93



%8 1 K+

CODE 11



%8 1 L+

China Postage



%8 1 M+

MSI/PLESSEY



%8 1 N+

Code 2 of 6



Telepen

%81P+



%81T+

LCD25



%81Q+

RSS-14



%81U+

RSS Limited



%81V+

RSS Expanded



%81W+

All Codes



%81S+

None



%814+

## C> Character Position to be Deleted

1. Decimal Value  
(Appendix A)

2. Complete



%820+

## D> Number of Characters to be Deleted

1. Decimal Value  
(Appendix A)

2. Complete



%830+

## 6.11 Setup Insertion

To setup the insertion of output characters:

1. Scan the label of the desired set.
2. Scan the label of the desired symbology.
3. Go to the Decimal Value Tables in Appendix A, scan label(s) that represents the desired position to be inserted.
4. Scan the "Complete" label of "Character Position to be Inserted".
5. Go to the ASCII Tables in Appendix B or Function Key Tables in Appendix C, scan label(s) that represents the desired characters to be inserted.
6. Scan the "Complete" label of "Characters to be Inserted".

Repeat the steps 1 - 6 to set additional insertion.

### A> Select Insertion Set Number

#### 1. 1st Set



%500+

#### 2. 2nd Set



%501+

#### 3. 3rd Set



%502+

#### 4. 4th Set



%503+

#### 5. 5th Set



%504+

#### 6. 6th Set



%505+

## B> Symbologies Selection

UPC-A



EAN-13/JAN-13/ISBN-13



CODE 39



CODABAR/NW7



Industrial 25



CODE 93



China Postage



UPC-E



EAN-8/JAN-8



CODE 128



Interleave 25



Matrix 25



CODE 11



MSI/PLESSEY



Code 2 of 6



Telepen



%5 1T+

LCD25



RSS-14



%5 1U+

RSS Limited



%5 1V+

RSS Expanded



%5 1W+

All Codes



%5 1S+

None



%5 14 +

## C> Character Position to be Inserted

1. Decimal Value  
(Appendix A)

2. Complete



%5 20 +

## D> Characters to be Inserted

1. ASCII Table  
(Appendix B)

2. Complete



%5 30 +

## 6.12 Setup IR Sensor (LG303 only)

<Disable>



Enable



## Appendix A Decimal Value Table

0



1



2



3



4



5



6



7



8



9



## Appendix B ASCII Table

NULL



ETX



ACK



HT



FF



SI



DC2



NAK



CAN



ESC



RS



STX



ENQ



BS



VT



SO



DC1



DC4



ETB



SUB



GS



1D

SOH



EOT



BEL



LF



CR



DLE



DC3



SYN



EM



FS



US



## SPACE



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72



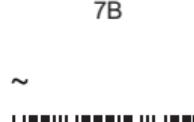
75



78



7B



7E



62



65



68



6B



6E



71



74



77



7A



7D



61



64



67



6A



6D



70



73



76



79



7C



7F

## Appendix C Function Key Table

F1



F2

F2



F4



F7



F10



Insert



Page Up



Left



Down



F3



F6



F9



F12



Home



End



Up



F2



F5



F8



F11



Delete



Page Down



Right



## WASTE ELECTRICAL & ELECTRONIC EQUIPMENT

Disposal of Electric and Electronic Equipment (applicable in the European Union and other European countries with separate collection systems)

### ENGLISH

This symbol on the product or its packaging indicates that this product shall not be treated as household waste. Instead, it should be taken to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. If your equipment contains easily removable batteries or accumulators, dispose of these separately according to your local requirements. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, contact your local city office, your household waste disposal service or the shop where you purchased this product. *In countries outside of the EU:* If you wish to discard this product, contact your local authorities and ask for the correct manner of disposal.

### DEUTSCH

Dieses auf dem Produkt oder der Verpackung angebrachte Symbol zeigt an, dass dieses Produkt nicht mit dem Hausmüll entsorgt werden darf. In Übereinstimmung mit der Richtlinie 2002/96/EG des Europäischen Parlaments und des Rates über Elektro- und Elektronik-Altgeräte (WEEE) darf dieses Elektrogerät nicht im normalen Hausmüll oder dem Gelben Sack entsorgt werden. Wenn Sie dieses Produkt entsorgen möchten, bringen Sie es bitte zur Verkaufsstelle zurück oder zum Recycling-Sammelpunkt Ihrer Gemeinde.

### ESPAÑOL

Este símbolo en el producto o su embalaje indica que el producto no debe tratarse como residuo doméstico. De conformidad con la Directiva 2002/96/CE de la UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), este producto eléctrico no puede desecharse con el resto de residuos no clasificados. Deshágase de este producto devolviéndolo a su punto de venta o a un punto de recolección municipal para su reciclaje.

### FRANÇAIS

Ce symbole sur le produit ou son emballage signifie que ce produit ne doit pas être traité comme un déchet ménager. Conformément à la Directive 2002/96/EC sur les déchets d'équipements électriques et électroniques (DEEE), ce produit électrique ne doit en aucun cas être mis au rebut sous forme de déchet municipal non trié. Veuillez vous débarrasser de ce produit en le renvoyant à son point de vente ou au point de ramassage local dans votre municipalité, à des fins de recyclage.

### ITALIANO

Questo simbolo sui prodotti o sulla relativa confezione indica che il prodotto non va trattato come un rifiuto domestico. In ottemperanza alla Direttiva UE 2002/96/EC sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE), questo prodotto elettrico non deve essere smaltito come rifiuto municipale misto. Si prega di smaltire il prodotto riportandolo al punto vendita o al punto di raccolta municipale locale per un opportuno riciclaggio.

### POLSKI

Jeśli na produkcie lub jego opakowaniu umieszczono ten symbol, wówczas w czasie utylizacji nie wolno wyrzucać tego produktu wraz z odpadami komunalnymi. Zgodnie z Dyrektywą Nr 2002/96/WE w sprawie zużyciego sprzętu elektrycznego i elektronicznego (WEEE), niniejszego produktu elektrycznego nie wolno usuwać jako nie posortowanego odpadu komunalnego. Prosimy o usunięcie niniejszego produktu poprzez jego zwrot do punktu zakupu lub oddanie do miejscowego komunalnego punktu zbiórki odpadów przeznaczonych do recyklingu.

### SLOVENSKO

Simbol prečrtanega smetnjaka s kolesi pomeni, da je treba ta izdelek odlati na zbirališču elektronskih odpadkov in ga ne smemo vreči med gospodinjske odpadke. Po direktivi Evropskega Parlamenta in Sveta 2002/96/EC pravila o ravnanju z odpadno električno in elektronsko opremo (EE) je potrošnik je zavezan oddati odslužene naprave na zbirališče odpadnih električnih naprav. Če važ izdelek vsebuje baterije ali akumulatorje, jih je potrebno uničiti ločeno. Za dodatne informacije o reciklirjanju tega izdelka se obrnite na pristojne službe ali na prodajalno, kjer ste izdelek kupili.

## WARRANTY INFORMATION

**English:** For warranty information, go to [www.manhattan-products.com/warranty](http://www.manhattan-products.com/warranty).

**Deutsch:** Garantieinformationen finden Sie unter [www.manhattan-products.com/warranty](http://www.manhattan-products.com/warranty).

**Español:** Si desea obtener información sobre la garantía, visite [www.manhattan-products.com/warranty](http://www.manhattan-products.com/warranty).

**Français:** Pour consulter les informations sur la garantie, visitez [www.manhattan-products.com/warranty](http://www.manhattan-products.com/warranty).

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---

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La presente garantía cubre los siguientes productos contra cualquier defecto de fabricación en sus materiales y mano de obra.

- A. Garantizamos los productos de limpieza, aire comprimido y consumibles, por 60 días a partir de la fecha de entrega, o por el tiempo en que se agote totalmente su contenido por su propia función de uso, lo que suceda primero.
- B. Garantizamos los productos con partes móviles por 3 años.
- C. Garantizamos los demás productos por 5 años (productos sin partes móviles), bajo las siguientes condiciones:
  1. Todos los productos a que se refiere esta garantía, ampara su cambio físico, sin ningún cargo para el consumidor.
  2. El comercializador no tiene talleres de servicio, debido a que los productos que se garantizan no cuentan con reparaciones, ni refacciones, ya que su garantía es de cambio físico.
  3. La garantía cubre exclusivamente aquellas partes, equipos o subensambles que hayan sido instaladas de fábrica y no incluye en ningún caso el equipo adicional o cualesquiera que hayan sido adicionados al mismo por el usuario o distribuidor.

Para hacer efectiva esta garantía bastará con presentar el producto al distribuidor en el domicilio donde fue adquirido o en el domicilio de IC Intracom México, S.A. de C.V., junto con los accesorios contenidos en su empaque, acompañado de su póliza debidamente llenada y sellada por la casa vendedora (indispensable el sello y fecha de compra) donde lo adquirió, o bien, la factura o ticket de compra original donde se mencione claramente el modelo, número de serie (cuando aplique) y fecha de adquisición. Esta garantía no es válida en los siguientes casos: Si el producto se hubiese utilizado en condiciones distintas a las normales; si el producto no ha sido operado conforme a los instructivos de uso; o si el producto ha sido alterado o tratado de ser reparado por el consumidor o terceras personas.

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Shijr, Taipei  
Taiwan, ROC

### Europe

IC INTRACOM EUROPE  
Löhbacher Str. 7  
D-58553 Halver  
Germany

## REGULATORY STATEMENTS

### FCC Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient or relocate the receiving antenna; increase the separation between the equipment and the receiver; connect the equipment to an outlet on a circuit different from the receiver; or consult the dealer or an experienced radio/TV technician for help.

### CE / R&TTE

**English:** This device complies with the requirements of R&TTE Directive 1999/5/EC.

**Deutsch:** Dieses Gerät entspricht der Direktive R&TTE Direktive 1999/5/EC.

**Español:** Este dispositivo cumple con los requerimientos de la Directiva R&TTE 1999/5/EC.

**Français:** Cet appareil satisfait aux exigences de la directive R&TTE 1999/5/CE.

**Polski:** Urządzenie spełnia wymagania dyrektywy R&TTE 1999/5/EC.

**Italiano:** Questo dispositivo è conforme alla Direttiva 1999/5/EC R&TTE.

**Slovensko:** S polno odgovornostjo izjavljamo, da je ta izdelek izdelan skladno s standardi skladnosti R&TTE Direktive 1999/5/EC.



Save Parameters



Recall Stored  
Parameters



Set All Defaults



Start Configuration



End Configuration



Abort Configuration



Version Information







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